

Curriculum Vitae

EWA MAĆZYŃSKA

Institute of Physics
Faculty of Physics, Astronomy and Informatics

ul. Grudziadzka 5/7
PL 87-100 Torun, Poland, EU
Tel.: +48/56/6112414 (office)
e-mail: e.maczynska@fizyka.umk.pl

Education

2014

PhD student - Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University, Torun, Poland

2011 - 2013

M.Sc – Faculty of Biotechnology (specialization: medical) Nicolaus Copernicus University Ludwik Rydygier Collegium Medicum in Bydgoszcz, Poland

Research project

- 2016-2017; Grant executive: SONATA-BIS „Zastosowania okulistyczne pomiarów in vitro za pomocą prototypowego tomografu optycznego OCT”
- 2014-2016; Grant executive: TEAM, „Novel optical techniques for enhanced structural, functional and dynamical imaging of anterior and posterior segment of the eye”

Publications

- Karnowski K, **Maćzyńska E**, Nowakowski M, Kałużny B, Grulkowski I, Wojtkowski M, Impact of diurnal IOP variations on the dynamic corneal hysteresis measured with air-puff swept-source OCT, *Photonics Letters of Poland*, 2018
- **Maczynska E**, Karnowski K, Szulzycki K, Malinowska M, Dolezyczek H, Cichanski A, Wojtkowski M, Kaluzny B, Grulkowski I, *Assessment of the influence of viscoelasticity of cornea in animal ex vivo model using air-puff optical coherence tomography and corneal hysteresis*, *Journal of biophotonics*, 2018
- Wojtkowski M, **Maczynska E**, Kaluzny B, Grulkowski I, *Air-puff Swept-Source Optical Coherence Tomography*, *Frontiers in Optics*, FTh4H. 1, 2016
- **Maczynska E**, Karnowski K, Kaluzny B, Grulkowski I, Wojtkowski M, *Non-contact investigation of the corneal biomechanics with air-puff swept source optical coherence tomography*, *Proceedings of SPIE Vol.9960*, 2016

- **Maczynska E**, Chou Lyu H, Karnowski K, Grulkowski I, Wojtkowski M, *SS-OCT based evaluation of possible impact on vision quality caused by long-term wear of soft contact lenses*, *Frontiers in Optics /Laser Science*, JTu4A. 33, 2015
- Gagat M, Grzanka D, Izdebska M, **Maćczyńska E**, Grzanka A, *Nornicotine impairs endothelial cell – cell adherens junction complexes in EA.hy926 cell line via structural reorganization of F-actin*, *Folia Histochem Cytobiol.* 2013;51(3):179-92.
- Nalejska E, **Maćczyńska E**, Lewandowska MA, *Prognostic and Predictive Biomarkers: Tools in Personalized Oncology*, *Mol Diagn Ther.* 2014 Jan 3

Conferences

- 02-07.07.2017, Gniezno, Polska Konferencja Optyczna, oral presentation: ***OCT do badań biomechaniki rogówek zwierzęcych ex vivo podczas aplanacji strumieniem powietrza***
- 30.08- 01.09.2016, San Diego, USA - SPIE Optics + Photonic, oral presentation: ***Non-contact investigation of the corneal biomechanics with air-puff swept source optical coherence tomography***
- 01-05.05.2016, Seattle, USA - ARVO 2016 Annula Meeting, poster: ***Assessment of biomechanical properties of porcine corneas with air-puff swept source***
- 18-22.10.2015, San Jose, USA - Frontiers in Optics & Laser Science Conference, poster: ***SS-OCT based evaluation of possible impact on vision quality caused by long-term wear of soft contact lenses***
- 18.10.2015, San Jose, USA - 2015 Student Leadership Conference, poster: ***Various Dimensions of Light***
- 24-26.06.15, Toruń - IX Kopernikańskie Sympozjum Doktoranckie, oral presentation: ***Towards investigation of long-term contact lens wear effects with use of SS-OCT***
- 27-30.05.2015, Wroclaw - OPTO-Meeting for Young Researchers & 10th Anniversary International SPIE Student Chapter Meeting 2015; oral presentation: ***Towards investigation of long-term contact lens wear effects with use of SS-OCT***

Honors

- Officer Travel Grant Award for SPIE Optics + Photonics – 2016 (to attend SPIE Optics + Photonics)
- Officer Travel Grant Award for Frontiers in Optics – 2015 (to attend Frontiers in Optics)

Membership in science organizations

- SPIE (the International Society for Optical Engineering)
- OSA (the Optical Society)
- ARVO (the Association for Research in Vision and Ophthalmology)
- Member of OSA and SPIE Student's Chapter in Toruń (chapter president in 2015/2016)

Outreach activity

- The 16. Art. And Science Festival in Torun, Poland (“The science of cooking: molecular gastronomy”) (2015)

- Laser Khet 2.0 Tournament (2016)
- Hit the target workshop (2016)
- Photographic competition (2015)
- The 15. Art. And Science Festival in Torun, Poland (2015) (“From candle to candle”)
- The 19. science Picnic in Warsaw, Poland (“how to make your own 3D photo”) (2015)
- 1st Physical-Physical Olympic Games (2014)

Hobbys

- photography, travelling, books